

CLAIMS

I Claim:

1 1. A wind resistant roof slate assembly comprising:
2 a plurality of generally rectangular, lightweight overlapping
3 roof slates, each of said roof slates comprising a mounting end, a
4 distal end, a top surface and a bottom surface;

5 a plurality of windlock anchors for directly securing the
6 mounting end of said roof slates to a roof of a building, where
7 said windlock anchors extend through the mounting end into the
8 roof to provide a wind resistant connection; and

9 a water based sealer applied to the top surface of said roof
10 slate;

11 wherein said roof slates are disposed on the roof so that the
12 distal end of a first of said roof slates overlaps the mounting
13 end of an adjacent roof slate.

1 2. The assembly according to claim 1, further comprising a
2 weatherproof underlayment disposed on the top surface of the roof
3 wherein the mounting end of said roof slates are mounted to the
4 underlayment by the windlock anchors.

1 3. The assembly according to claim 2, wherein said
2 weatherproof underlayment comprises a granular felt layer.

1 4. The assembly according to claim 1, wherein said windlock
2 anchor comprises a screw fastener with a plastic washer.

1 5. The assembly according to claim 1, further comprising an
2 adhesive layer disposed on the bottom surface of said roof slates
3 to further secure the mounting end of said roof slates to the roof
4 and to secure the overlapping distal end of said roof slates to
5 the top surface of an adjacent roof slate.

1 6. The assembly according to claim 5, wherein said adhesive
2 layer is selected from the group consisting of mortars, thinset
3 adhesives and foam adhesives.

1 7. The assembly according to claim 1, wherein said sealer is
2 selected from the group consisting of cement wash nontoxic sealers
3 and elastomeric coatings.

1 8. The assembly according to claim 1, wherein said roofing
2 slates comprise autoclaved aerated concrete roofing slates.

1 9. A wind resistant roof slate assembly comprising:
2 a plurality of generally rectangular, lightweight overlapping
3 roof slates, each of said roof slates comprising a mounting end, a
4 distal end, a top surface and a bottom surface;
5 an adhesive layer applied to the bottom surface of said roof
6 slates to further secure the mounting end of said roof slates to
7 the roof and to secure the overlapping distal end of said roof
8 slates to the top surface of an adjacent roof slate;
9 a plurality of windlock anchors for directly securing the
10 mounting end of said roof slates to a roof of a building, where
11 said windlock anchors extend through the mounting end into the
12 roof to provide a wind resistant connection; and
13 a water based sealer applied to the top surface of said roof
14 slate;
15 wherein said roof slates are disposed on the roof so that the
16 distal end of a first of said roof slates overlaps the mounting
17 end of an adjacent roof slate.

1 10. The assembly according to claim 9, further comprising a
2 weatherproof underlayment disposed on the top surface of the roof
3 wherein the mounting end of said roof slates are mounted to the
4 underlayment by the windlock anchors.

1 11. The assembly according to claim 10, wherein said
2 weatherproof underlayment comprises a granular felt layer.

1 12. The assembly according to claim 9, wherein said windlock
2 anchor comprises a screw fastener with a plastic washer.

1 13. The assembly according to claim 9, wherein said adhesive
2 layer is selected from the group consisting of mortars, thinset
3 adhesives and foam adhesives.

1 14. The assembly according to claim 9, wherein said sealer
2 is selected from the group consisting of cement wash nontoxic
3 sealers and elastomeric coatings.

1 15. The assembly according to claim 9, wherein said roofing
2 slates comprise autoclaved aerated concrete roofing slates.